

OMRS Report

UIPT F8V2 Entry

Flight: ULF1

Payload: Space Dynamically Responding Ultrasonic Matrix Sys

151502	2	LEAK CHECK	SSPF	A:PUSDRUMS
	1-000			B:
	1-001	UPON CONNECTION OF THE SPACE-DRUMS PM	NO VISIBLE LEAKAGE	C:
	1-002	FLIGHT UNIT TO THE MTL, VISUALLY		
	1-003	INSPECT AND VERIFY THAT NO LEAKS EXIST		
	1-004	AT THE QUICK DISCONNECT.		
	1-005			
	1-006			D:
151503	2	POWER FUNCTIONAL I/F TEST	SSPF	A:PUSDRUMS
	1-000			B:
	1-001	VERIFY OPERATION WHEN POWERED BY		C: R-1: RECORD CURRENT DRAW OF
	1-002	EXPRESS RACK.		PAYLOAD ONCE POWER UP IS COMPLETED
	1-003			- FOR ENGINEERING DATA ONLY.
	1-004	PM-CMA-01-TMP/PAP (LED)	ON	
	1-005			R-2: LABELS FOR EACH LED AS
	1-006	PM-CMA-020MHSCU (LED)	ON	FOLLOWS:
	1-007			MDL POSITION 2 (APEM) - "POWER
	1-008	APEM CMA (LED)	ON	IND"
	1-009			MDL POSITION 6 (PCEM) - "POWER
	1-010	PCEM CMA (LED)	ON	IND"
	1-011			MDL POSITION 7/8 (PM UPPER CMA) -
	1-012	STATUS DISPLAY (LCD)	BLINKING CURSOR	"POWER IND"
	1-013			MDL POSITION 7/8 (PM LOWER CMA) -
	1-014			"POWER IND"
	1-015			
	1-016			

OMRS Report

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	1-017		D:
151504**	3 CAUTION & WARNING H/S CHECK	SSPF	A:PUSDRUMS
	1-000		B:
	1-001 ONCE THE PAYLOAD IS FULLY INTEGRATED,		C:
	1-002 PERFORM A POWER UP ACCORDING TO NORMAL		
	1-003 ON-ORBIT PROCEDURES AND RECORD HEALTH		
	1-004 AND SAFETY DATA SENT BACK FROM PCEM.		
	1-005		
151504-A	1-006 INDUCE ADVISORY CODE		
	1-007		
	1-008 INDUCE ADVISORY CODE FOR SPACE-DRUMS	VERIFY ADVISORY BIT	
	1-009 WHILE POWERED IN THE EXPRESS RACK	SET	
	1-010		
151504-B	1-011 INDUCE WARNING CODE		
	1-012		
	1-013 INDUCE WARNING CODE FOR SPACE-DRUMS	VERIFY WARNING BIT	
	1-014 WHILE POWERED IN THE EXPRESS RACK	SET AND PROPER	
	1-015	PAYLOAD MDM ACTION	
	1-016		
	1-017		D:
151506**	2 FINAL FLIGHT CLOSEOUT	SSPF	A:PUSDRUMS
	1-000		B:
	1-001 CLOSEOUT ACTIVITIES		C: C-1: HARD DRIVE CLEANUP TO BE
	1-002		PERFORMED BY PD BEFORE FINAL POWER
151506-A	1-003 COMPUTER HARD DRIVE CLEANUP	SSPF	DOWN AT PTCS

OMRS Report

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	1-004			
	1-005	ALLOW PD TO DELETE TEMPORARY FILES ON	CUSTOMER VERIFIED	R-1: SWITCH LABELS:
	1-006	PCEM HARD DRIVE AND VERIFY FINAL	HARD DRIVE CONTENT	PM-CMA-01 (UPPER) - "POWER A"
	1-007	SOFTWARE VERSION		PM-CMA-02 (LOWER) - "POWER B"
	1-008			STATUS DISPLAY POWER - "POWER"
151506-B	1-009	PRE-LAUNCH SWITCH SETTINGS	SSPF	APEM CMA - "POWER"
	1-010			PCEM CMA - "POWER"
	1-011	INSPECT SWITCH SETTINGS AFTER		IPM BATTERY POWER - "POWER"
	1-012	INTEGRATION INTO MPLM		
	1-013			
	1-014			
	1-015	PM-CMA-01 (UPPER)	OFF	
	1-016			
	1-017			
	1-018	PM-CMA-02 (LOWER)	OFF	
	1-019			
	1-020			
	1-021	STATUS DISPLAY POWER	OFF	
	1-022			
	1-023			
	1-024	APEM CMA	OFF	
	1-025			
	1-026			
	1-027	PCEM CMA	OFF	
	1-028			
	1-029			
	1-030	PCEM MASTER	OFF	

OMRS Report UIPT F8V2 Entry

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1-031

1-032

1-033 PCEM KILL

OFF

1-034

1-035

1-036 IPM BATTERY POWER

OFF

1-037

1-038

D:

151507 3 ESD PROTECTION SSPF

A:GENERAL REQUIREMENT

1-000

B:

1-001 ALL MODULES SHALL BE CONNECTED TO

C:

1-002 FACILITY GROUND. USE ESD PROTECTION

1-003 WHEN MODULES ARE NOT GROUNDED OR WHEN

1-004 CONNECTORS ARE EXPOSED.

1-005

1-006

D:

151508** 3 C&DH/POIC FUNCTIONAL I/F TEST SSPF

A:PUSDRUMS

1-000

B:

1-001 PERFORM CHECK OUT USING PTCS OF

C: C-1: KSC POIC EHS SYSTEMS AND PL
TREK SYSTEM TO BE USED

1-002 SELECTED POIC COMMAND AND TELEMETRY

1-003 DATA BASE FUNCTIONS BY SENDING

1-004 COMMANDS AND FLOWING TELEMETRY.

C-2: KSC POIC COMMAND AND
TELEMETRY DATABASES TO BE USED

1-005

151508-A 1-006 ISSUE/VERIFICATION SSPF

1-007

C-3: PERFORM A SUB-SET OF COMMANDS

OMRS Report UIPT F8V2 Entry

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	1-008	ISSUE AND VERIFY COMMANDS.	COMMANDS SENT AND	USING PDSS WITH KSC-EHS
	1-009		EXECUTED	
151508-B	1-010	PROCESS TELEMETRY	SSPF	R-1: COMMANDS TO BE SELECTED BY
	1-011			TEST TEAM/CUSTOMER
	1-012	DOWN-LINK AND PROCESS TELEMETRY REF -	NO DROPPED PACKETS	
	1-013	R-3, R-4	OR HEADER ERRORS	R-2: PERFORM COMMANDING TO EXPRESS
	1-014		AND CUSTOMER	RACK USING EHS WORK STATION
	1-015	(REF. R-3, R-4)	VERIFIED CONTENT OF	
	1-016		DATA	R-3: HEALTH &STATUS WILL BE
151508-C	1-017	FILE UPLOAD	SSPF	CONTINUOUSLY GENERATED AT 1 HZ
	1-018			WHILE PAYLOAD IS POWERED AND PCEM
	1-019	TRANSFER SPECIFIED SOFTWARE FILE FROM	CUSTOMER VERIFIED	IS OPERATIONAL
	1-020	EMU TO PCEM		
	1-021			R-4: SCIENCE DATA WILL INCLUDE
151508-D	1-022	FILE DOWNLOAD	SSPF	HARDWARE INPUTS AND CORE TECH INFO
	1-023			AT 1 HZ RATE PLUS DIGITAL VIDEO
	1-024	DOWNLINK FILE AS TELEMETRY	NO DROPPED PACKETS	DATA AT MAXIMUM 1MB/SEC RATE
	1-025		OR HEADER ERRORS	
	1-026		AND CUSTOMER	R-5: APERIODIC DATA WILL INCLUDE
	1-027		VERIFIED CONTENT OF	ERROR GENERATIONS, SOFTWARE ERROR
	1-028		DATA	CODES AND SYSTEM FAILURE CODES.
	1-029			
	1-030			
	1-031			D:
151510		CLEANLINESS	SSPF	A:PUSDRUMS
	1-000			B:

OMRS Report UIPT F8V2 Entry

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1-001	PERFORM CLEANING OF ALL MODULES AFTER	VISIBLY CLEAN	C: C-1: PERFORM PRIOR TO INSTALLATION
1-002	COMPLETION OF TESTING PRIOR TO AND	SENSITIVE AS PER	INTO MPLM AS WELL AS AFTER
1-003	AFTER INSTALLATION INTO RACK.	JSC SN-C-0005	INSTALLATION INTO RACK FOR FINAL
1-004			LAUNCH CONFIGURATION
1-005			
1-006			R-1: USE KSC PROVIDED CLEANING
1-007			MATERIALS
1-008			
1-009			R-2: HAND WIPE DOWN OF HARDWARE
1-010			EXPOSED SURFACES
1-011			
1-012			
1-013			D:
1-014			REF: VS-C PER JSC-SN-C-0005
151513** 2 COOLANT LOOP SERVICING SSPF A:PUSDRUMS			
1-000			B:
1-001	CHARGE SPACE-DRUMS FLUID LOOP (PM-TMS)		C: C-1: FLUID LOOP TO BE FILLED USING
1-002	WITH ITCS COOLANT. VERIFY COOLANT IN		VACUUM FILL METHOD
1-003	PM-TMS LOOP IS COMPLIANT WITH ISS		
1-004	REQUIREMENTS.		C-2: PERFORM PRIOR TO EXPRESS RACK
1-005			INTEGRATION
1-006	CHLORIDES	MAX 1.0PPM	
1-007			C-3: PERFORM PRIOR TO DEMATE FROM
1-008	DISSOLVED OXYGEN	MIN 6.0 PPM	PTCS
1-009			
1-010	TOTAL ORGANIC CARBON	MAX 5 PPM	R-1: OBTAIN PARTICULATE COUNT

OMRS Report

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	1-011		AGAINST LEVEL 200, BASELINE DATA
	1-012 DI/TRI SODIUM PHOSPHATE	200-250 PPM AS PO4	ONLY
	1-013		
	1-014 SODIUM BORATE	800-1250 PPM AS	R-2: SILVER SULFATE CONTENT MAY BE
	1-015	B4O7	OBTAINED FOR ENGINEERING DATA
	1-016		
	1-017 SILVER SULFATE	BASELINE DATA	
	1-018		
	1-019 PH LEVEL	9.5+/-0.5	
	1-020		
151513-A	1-021 EXPRESS RACK PRE-INTEGRATION		
	1-022		
	1-023 VERIFY		
	1-024		
151513-B	1-025 FINAL FLIGHT CLOSEOUT		
	1-026		
	1-027 VERIFY		
	1-028		
	1-029		D:
156543	SHARP EDGE INSPECTION	SSPF	A:PUSDRUMS
	1-000		B:
	1-001 PERFORM VISUAL AND/OR HAND INSPECTION	EVA GLOVE SWATH IS	C: C-1: PERFORM IN LAUNCH
	1-002 FOR SHARP EDGES USING EVA GLOVE SWATH	NOT SCRATHED WHEN	CONFIGURATION
	1-003	RUBBED OVER EDGES	
	1-004		R-1: REFERENCE OMRS FILE 2 VOLUME
	1-005		2 TABLE P01000.010 FOR SHUTTLE I/F

OMRS Report

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	1-006			AND REF. SSP 50005 (ISS FLIGHT
	1-007			CREW INTEGRATION STANDARD) FOR
	1-008			STATION I/F.
	1-009			
	1-010			
	1-011			D:
	1-012			REF: NO SHARP EDGES AS PER PARA 3.6.3
	1-013			OF SSP 52000-IDD-ERP
156544**	2	HOSE FIT CHECK	SSPF	A:PUSDRUMS
	1-000			B:
	1-001	HOSE FIT CHECK		C:
	1-002			
156544-A	1-003	VACUUM HOSE	SSPF	
	1-004			
	1-005	PERFORM FIT CHECKOF VACUUM HOSE		
	1-006	BETWEEN EXPRESS RACK AND PM		
	1-007			
	1-008			
	1-009	FIT CHECK	PHYSICAL	HOSE CONNECTS
	1-010			
156544-B	1-011	MTL HOSES (2)	SSPF	
	1-012			
	1-013	PERFORM FIT CHECK OF MTL HOSES BETWEEN		
	1-014	EXPRESS RACK AND PROCESSING MODULE		
	1-015			
	1-016			

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	1-017	FIT CHECK	PHYSICAL	BOTH HOSES CONNECT	
	1-018				
	1-019				D:
156545**	2	VIDEO FUNCTIONAL I/F TEST		SSPF	A:PUSDRUMS
	1-000				B:
	1-001	INTERFACE FUNCTIONAL TEST			C: C-1: ROUTE VIDEO THROUGH KSC VIDEO
	1-002				SET TO SSPF FACILITY VIDEO
156545-A	1-003	OPERATIONAL FIBER OPTIC VIDEO (J16)			SWITCHER TO BE DISPLAYED ON CCTV
	1-004				GROUND MONITORS
	1-005	DEMONSTRATE THAT A PAYLOAD VIDEO		CUSTOMER VERIFY	
	1-006	SIGNAL CAN BE DISPLAYED ON AN NTSC		ACCEPTABLE VIDEO ON	C-2: ROUTE VIDEO THROUGH VBSP HRFM
	1-007	COMPATIBLE CCTV MONITOR USING DIGITAL		CCTV UP TO 1 MB/	
	1-008	VIDEO DOWNLINK		SEC MAXIMUM	R-1: VIDEO DATA WILL BE
	1-009			TRANSFER RATE	CONTINUOUSLY GENERATED INA DUAL
	1-010	(REF. C-1, C-2)			STREAM (TWO CAMERA FEEDS)WHILE
156545-B	1-011	MAINTENANCE FIBER OPTIC VIDEO (J16)			PAYLOAD IS PROCESSING.
	1-012				
	1-013	DEMONSTRATE THAT A PAYLOAD VIDEO		CUSTOMER VERIFY	
	1-014	SIGNAL CAN BE DISPLAYED ON AN NTSC		ACCEPTABLE VIDEO ON	
	1-015	COMPATIBLE CCTV MONITOR USING ANALOG		CCTV UP TO 1 MB/	
	1-016	VIDEO DOWNLINK REF C-1		SEC MAXIMUM	
	1-017			TRANSFER RATE	
156545-C	1-018	ON BOARD VIDEO (LAPTOP)			
	1-019				
	1-020	DEMONSTRATE THAT A PAYLOAD ANALOG		CUSTOMER VERIFY	
	1-021	VIDEO SIGNAL CAN BE DISPLAYED ON THE		ACCEPTABLE VIDEO ON	

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	1-022	EXPRESS LAPTOP	LAPTOP	
	1-023			
156545-D	1-024	MAINTENANCE ON BOARD VIDEO (LAPTOP)	CUSTOMER VERIFY	
	1-025		ACCEPTABLE VIDEO ON	
	1-026		LAPTOP	
	1-027			
	1-028			D:
156546	3	EXPRESS RACK FLUID LOOP SETTINGS	SSPF	A:GENERAL REQUIREMENT
	1-000			B:
	1-001	MAINTAIN FLOW THROUGH PM-TMS COOLANT	56 +/- 6 LBM/HR	C:
	1-002	LOOP		
	1-003			
	1-004			D:
156572		ARGON BOTTLE FILL	SSPF	A:PUSDRUMS
	1-000			B:
	1-001	INSERT DESCRIPTION HERE	INSERT PASS/FAIL	C:
	1-002		CRITERIA HERE	
	1-003			
	1-004			D: